

DECLARATION FOR PATENT APPLICATION & POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

RANGE OPTIMIZATION ALGORITHMS

the specification of which (check one)

is attached hereto.

— was filed on _____ as Application Serial No.
and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Codes, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

PRIOR FOREIGN APPLICATION(S)

Priority claimed

| (Number) | (Country) | (Day/month/year filed) | Yes | No |
|----------|-----------|------------------------|-----|----|
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I hereby claim the benefits under Title 35, United States Code, § 120 of any

United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

| (Application Serial No.) | (Filing date) | (Status) (patented,pending,abandoned) |
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| (Application Serial No.) | (Filing date) | (Status) (patented,pending,abandoned) |
|--------------------------|---------------|--|

Power of Attorney: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

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I hereby declare that all statements made herein on my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false

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statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole inventor:

Kristin Butcher

Inventor's signature:

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12/20/1999

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**BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE
UNITED STATE PATENT AND TRADEMARK OFFICE**

LIMITED RECOGNITION UNDER 37 CFR § 10.9(b)

Andreas Horst Lothar Grubert is hereby given limited recognition under 37 CFR § 10.9(b) as an employee of Siemens Corporation to prepare and prosecute patent applications wherein the assignee of record of the entire interest is Siemens Corporation, or one of the following subsidiaries of Siemens Corporation: Pyramid Technology Corporation, Siemens Information and Communication Products LLC (formerly Siemens Pyramid Information Systems, Inc.), Siemens Communication Systems, Inc., Infineon Technologies, Inc. (formerly Siemens Microelectronic Inc., which, in turn, was formerly Siemens Components, Inc.), Siemens Technology to Business, Inc., Siemens Components (Advanced Technology) Sdn. Bhd., Siemens Components (Pte) Ltd., Siemens Energy & Automation, Inc., Siemens Information Systems, Inc., Siemens Medical Systems, Inc., Siemens Power Corporation, Siemens Automotive Corporation, Siemens Information and Communication Networks, Inc. (formerly Siemens Telecom Networks and Siemens Business Communications Systems, Inc., which, in turn, was formerly Siemens Rolm Communications Inc.), Siemens Information and Communication Products LLC (formerly portions of Siemens Business Communication Systems, Inc., and Siemens Nixdorf Information Systems, Inc.), Siemens Corporate Research, Inc., Crystal Technology, Potter & Brumfield, Inc., Siemens Business Services LLC (formerly Siemens Nixdorf Information Systems, Inc.), Siemens Nixdorf Informationssysteme AG, Siemens Nixdorf Information Systems S.A./N.V., Siemens Nixdorf Information Systems S.A., Siemens Nixdorf Information Systems Ltd., Siemens Nixdorf Informatica S.p.A., Siemens Nixdorf Informatiesystemen B.V., Siemens Nixdorf Informatiesystemene Ges.m.b.H., Siemens Nixdorf Informatiesystemene AG, Siemens Nixdorf Sistemas de Información S.A., Siemens Nixdorf Printing Systems L.P., Siemens Hearing Instruments, Inc., Siemens Quantum, Inc., Siemens Stromberg-Carlson, Rofin-Sinar, Inc., Siemens Transportation Systems, Inc., Advanced Nuclear Fuels Corp., Siemens Private Communications Systems, Inc., Cardion, Inc., Siemens Duewag Corporation, Duewag AG, Siemens Solar Industries L.P., Siemens Industrial Automation, Inc., OSRAM SYLVANIA Inc., Osram GmbH, Osram S.A., Osram Ltd., Osram Società Riunite Osram Edison-Clerici S.p.A., Osram S.A. de C.V., Osram Argentina S.A.C.I., Osram do Brasil-Companhia de Lâmpadas Elétricas S.A., Osram-Melco Ltd., Siemens Audio Inc., Siemens Credit Corporation, Siecor Corporation, SIBAG Investments, Inc., Vacuumschmeize GmbH, Siemens Matashita Components GmbH & Co. KG, Siemens S.A., Siemens A/S, Siemens Osakeyhtiö, Siemens A.E. Elektrotechnische Projekte und Erzeugnisse, Siemens plc, Siemens Ltd., Siemens S.p.A., Siemens Nederland N.V., Siemens AG Österreich, Siemens AB, Siemens-Albis AG, Simko Ticaret ve Sanayi A.S., Siemens Electric Ltd., Siemens S.A. de C.V., Siemens K.K., Siemens Pakistan Engineering Co. Ltd., Siemens Telecommunication Systems Ltd., Bosch-Siemens Hausgäte GmbH, Linotype-Hell AG, Tela Versicherung Aktiengesellschaft, GPT Holdings Ltd., Siecor Corporation, and Equitel S.A. Equipamentos e Sistemas de Telecommunicacões. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Andreas Horst Lothar Grubert ceases to lawfully reside in the United States, (ii) Andreas Horst Lothar Grubert's employment with Siemens Corporation ceases or is terminated, or (iii) Andreas Horst Lothar Grubert ceases to remain or reside in the United States on an L-1 visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

Expires: September 21, 2001


Harry I. Moatz, Acting Director
Office of Enrollment and Discipline